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Note: Specific model may differ from photo.

UNIVERSAL INPUT

FEATURES

- 15 Standard desktop models
- Optional output connectors
- Optional on/off switch
- 100% burn-in
- 85 to 264 VAC universal input
- Input surge current protection
- Overvoltage protection
- Overcurrent protection
- Single, dual or triple outputs

DESCRIPTION

The FSA30P series of AC/DC switching power supplies are for 25 - 30 watts of continuous output power. They are enclosed in a 94V-1 rated polyphenylene-oxide case with an IEC 320 inlet to mate with an interchangeable cord for worldwide use. All models meet CISPR 11 and FCC class B emission limits, and are comply with UL, CSA, IEC and CE requirements.

INPUT SPECIFICATION

Input Voltage:	85 to 264 VAC
Input Frequency:	47 ~ 63Hz
Input Current:	0.80A (rms) for 115 VAC 0.50A (rms) for 230VAC
Leakage Current:	0.47mA max. @ 115 VAC, 60Hz 0.85mA max. @ 230 VAC, 50Hz

FSA30P SERIES
30 WATT SWITCHING POWER SUPPLIES

OUTPUT SPECIFICATIONS

Output Voltage/Current:	See rating chart
Total Output Power:	30 watts maximum
Ripple and Noise:	1% peak to peak max.
Overvoltage Protection:	Provided on output #1 only; set at 112-132% of it's nominal output voltage
Overcurrent Protection:	All outputs protected to short circuit conditions
Temperature Coefficient:	All outputs ± 0.04% /°C maximum
Transient Response:	Max. excursion of 4% or better on all models, recovering to 1% of final value within 500μs after a 25% step load change

GENERAL SPECIFICATIONS

Switching Frequency:	30kHz ± 5kHz
Efficiency:	70% min. on single output with Vo ≥ 12V, 65% min. on the others
Hold-up Time:	10 mS min. at 110 VAC
Line Regulation:	±0.5% max. at full load
Inrush Current: (25° C cold start)	15 amps. @ 115VAC, or 30 amps @ 230 VAC
Withstand Voltage:	3,000VAC input to output 1,500VAC input to ground 500VAC output to ground
MTBF: (25°C ambient)	400,000 hours min. at full load
EMI Requirements:	In compliance with CISPR 22 (EN 55022) Class B and FCC Class B
Safety Requirements:	Meets or exceeds: (a) UL 1950 (b) CSA C22.2 No. 950 (c) IEC 950 (EN 60950)

ENVIRONMENTAL SPECIFICATIONS

Operating Temp.:	0° to +70°C
Storage Temperature:	-40°C to +85°C
Relative Humidity:	5% to 95% non-condensing
Derating:	Derate from 100% at +50°C to linearly to 50% at +70°C.

E135662 LR74458 S9452673 (LVD)

FORTRON/SOURCE

47448 Fremont Boulevard, Fremont CA 94538 U.S.A. ◆ Telephone: (510) 440-0188 ◆ Fax: (510) 440-0928
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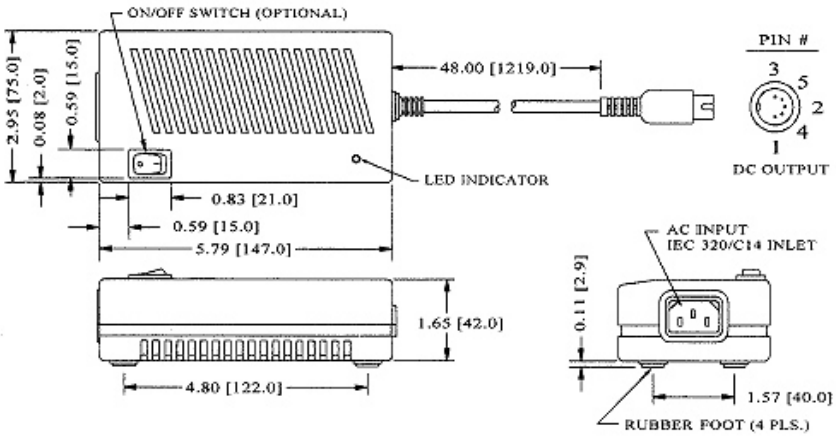
E-mail: salesusa@fspgroup.com ◆ Website: www.fspgroup.com

OUTPUT VOLTAGE / CURRENT RATING CHART

Model	Output #1				Output #2				Output #3				Max. Output
	Vnom	Imin	Imax	Tol.	Vnom	Imin	Imax	Tol.	Vnom	Imin	Imax	Tol.	
FSA30P10	5-6V	0A	5.0A	5%	(N/A)				(N/A)				25W
FSA30P10-1	6-8V	0A	4.5A	2%	(N/A)				(N/A)				27W
FSA30P11	9-11V	0A	3.3A	2%	(N/A)				(N/A)				30W
FSA30P12	11-13V	0A	2.7A	2%	(N/A)				(N/A)				30W
FSA30P13	13-17V	0A	2.3A	2%	(N/A)				(N/A)				30W
FSA30P13-1	17-21V	0A	1.7A	2%	(N/A)				(N/A)				30W
FSA30P14	21-27V	0A	1.4A	2%	(N/A)				(N/A)				30W
FSA30P16	27-33V	0A	1.1A	2%	(N/A)				(N/A)				30W
FSA30P17	33-39V	0A	0.9A	2%	(N/A)				(N/A)				30W
FSA30P18	48V	0A	0.7A	2%	(N/A)				(N/A)				30W
FSA30P23	+5V	0.3A	3.0A	5%	+12V	0.1A	2.0A	5%	(N/A)				30W
FSA30P24	+5V	0.3A	3.0A	5%	+15V	0.1A	1.5A	5%	(N/A)				30W
FSA30P25	+5V	0.3A	3.0A	5%	+24V	0.1A	1.0A	5%	(N/A)				30W
FSA30P31	+5V	0.3A	3.0A	5%	+12V	0A	0.8A	5%	-12V	0A	0.8A	5%	30W
FSA30P32	+5V	0.3A	3.0A	5%	+15V	0A	0.8A	5%	-15V	0A	0.8A	5%	30W

Notes: (1) The output voltage of a single output model, except FMA55P18, can be adjusted by user in the stated range, or set by factory to a wanted value in the range at the request of a user when ordering.
(2) The output voltages of a multiple output model may go outside of the stated tolerance when an output load
(3) Current is out of stated limits. All models may be operated at no-load without damage.

MECHANICAL SPECIFICATIONS



Notes:

1. Dimensions shown in inch (mm)
2. Tolerance 0.02 (0.5) maximum
3. Weight: 700 grams approx.
4. Contact Fortron / Source for information on optional output connectors
5. To order a model with on / off switch, add suffix "S" to the model number, e.g. FSA30P10-S

PIN CHART

MODEL \ PIN	1	2	3	4	5
FSA30P10 FSA30P10-1 FSA30P11 FSA30P12 FSA30P13 FSA30P13-1 FSA30P14 FSA30P16 FSA30P17 FSA30P18	Return	Return	Output # 1	Return	Output # 1
FSA30P23 FSA30P24 FSA30P25	Common Return	Common Return	Output # 1	Common Return	Output # 2
FSA30P31 FSA30P32	Common Return	Common Return	Output # 1	Output # 3	Output # 2

Note: All data are subject to change without notice

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